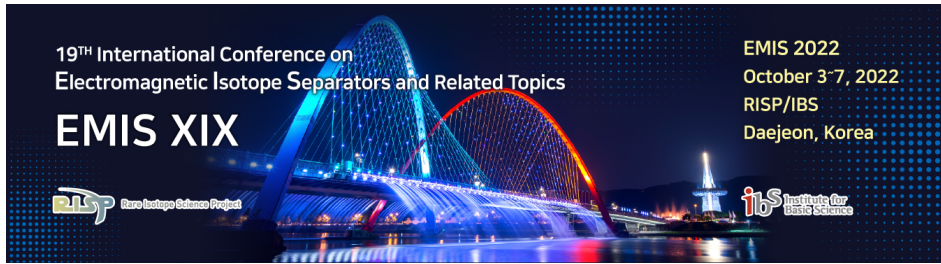


EMIS 2022 at RAON



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Status of LAMPS at RAON

Thursday, October 6, 2022 12:10 PM (20 minutes)

A new radioactive ion-beam accelerator facility, RAON, is under construction in Korea. Among the various experimental systems, the Large Acceptance Multi-Purpose Spectrometer (LAMPS) will be available in the high-energy experimental hall at RAON. The main goal of the LAMPS system is to investigate the nuclear equation of state (EoS) and, especially, the symmetry energy (SE) of the compressed nuclear matter, which should be essential to understand the effective nuclear interactions and structure of the astrophysical objects like neutron stars.

In this presentation, the status of the development and construction of the basic version of the LAMPS system will be presented. The components of the basic LAMPS system consist of the beam diagnostic elements, such as the Starting Counters (SC) and Beam Drift Chambers (BDC), the Time-Projection Chamber (TPC), the Barrel and Forward Time-of-Flight system (BTOF and FTOF), the forward neutron detector array (NDA), and the superconducting solenoid magnet. The overview of the present status for each detector components will be given with some prospects.

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